What is claimed is:

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- 1 A method of controlling communications in a wireless network 2 comprising: 3 receiving, in a wireless network controller, an indicator in a message sent 4 by a mobile station to establish a data transfer session in the wireless network; and 5 selecting one of plural types of protocol stacks to use for communications 6 over an air link between the wireless network controller and mobile station based on the 7 indicator.
- 1 2. The method of claim 1, wherein selecting one of plural types of protocol 2 stacks comprises selecting from protocol stacks comprising a GERAN protocol stack.
 - 3. The method of claim 2, wherein selecting one of plural types of protocol stacks comprises selecting from plural stacks comprising the GERAN protocol stack and an EGPRS protocol stack.
 - 4. The method of claim 1, wherein selecting one of plural types of protocol stacks comprises selecting from protocol stacks comprising an EGPRS protocol stack.
 - 5. The method of claim 1, wherein receiving the indicator comprises receiving a Temporary Logical Link Identity structure having one of plural values.
 - 6. The method of claim 5, wherein selecting one of plural types of protocol stacks comprises selecting a first protocol stack if the Temporary Logical Link Identity structure has a first value.
- 7. 1 The method of claim 6, wherein selecting one of plural types of protocol 2 stacks further comprises selecting a second protocol stack if the Temporary Logical Link 3 Identity structure has a second value.

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1	8.	The method of claim 1, wherein selecting one of plural types of protocol		
2	stacks comprises selecting a first protocol stack if the indicator has a first value and			
3	selecting a second protocol stack if the indicator has a second value.			
1	9.	The method of claim 1, wherein receiving the indicator comprises		

- 9. The method of claim 1, wherein receiving the indicator comprises receiving a parameter used for contention resolution.
- 1 10. The method of claim 9, further comprising performing contention 2 resolution using the parameter.
- 1 11. The method of claim 9, wherein receiving the parameter comprises 2 receiving a Temporary Logical Link Identity.
 - 12. The method of claim 9, wherein receiving the parameter comprises receiving a GERAN Contention Resolution Identity.
 - 13. The method of claim 1, wherein receiving the indicator comprises receiving one of plural training sequences.
 - 14. A system comprising:

 an interface to an air link to communicate with mobile stations; and
 a controller adapted to perform contention resolution with a first type
 mobile station using a first type of indicator, the controller adapted to communicate
 signaling according to a first wireless protocol with the first type of mobile station, and
 the controller adapted to perform contention resolution with a second type
 of mobile station using a second type of indicator, the controller adapted to communicate
 signaling according to a second wireless protocol with the second type of mobile station.
- 1 15. The system of claim 14, wherein the first wireless protocol comprises a 2 GERAN wireless protocol.

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- 1 16. The system of claim 15, wherein the second wireless protocol comprises 2 an EGPRS wireless protocol.
- 1 17. The system of claim 14, wherein the first wireless protocol comprises an 2 EGPRS wireless protocol.
- 1 18. The system of claim 14, wherein the first type of indicator comprises a
 2 Temporary Logical Link Identity (TLLI) structure having a first value, and the second
 3 type of indicator comprises a TLLI structure having a second value.
- 1 19. The system of claim 18, wherein the first value indicates one of a local
 2 TLLI, a foreign TLLI, and a random TLLI, and the second value indicates one of a local
 3 GRCI and a random GRCI.
 - 20. An article comprising at least one storage medium containing instructions that when executed cause a wireless access system to:

receive an indicator in a message sent by a mobile station to establish a

- data transfer session; and
 select one of plural protocol stacks to use for communications over an air
 link between the wireless access system and the mobile station.
- The article of claim 20, wherein the instructions when executed cause the wireless access system to select one of plural protocol stacks by selecting a first protocol stack in response to the indicator having a first value and selecting a second protocol stack in response to the indicator having a second value.
- The article of claim 20, wherein the instructions when executed cause the wireless access system to select one of a GERAN protocol stack and an EGPRS protocol stack.

	1	23.	The article of claim 20, wherein the instructions when executed cause the	
	2	wireless acce	ss system to receive the indicator by receiving a Temporary Logical Link	
	3	Identity (TLI	LI) structure.	
	1	24.	An article comprising at least one storage medium containing instructions	
	2	that when executed cause a wireless access system to:		
	3		perform contention resolution with a first type mobile station using a first	
	4	type of indicator;		
	5		communicate signaling according to a first wireless protocol with the first	
	6	type of mobile station;		
	7		perform contention resolution with a second type of mobile station using a	
rii b	8	second type of	of indicator; and	
A. The speed of the second sec	9		communicate signaling according to a second wireless protocol with the	
45	10	second type of	of mobile station.	
in the second				
	1	25.	The article of claim 24, wherein the instructions when executed cause the	
254 F	2	wireless acce	ss system to select one of plural types of protocol stacks based on which of	
the dark damp shows short glank the terms of the terms.	3	the first and s	second types of indicators is received.	
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